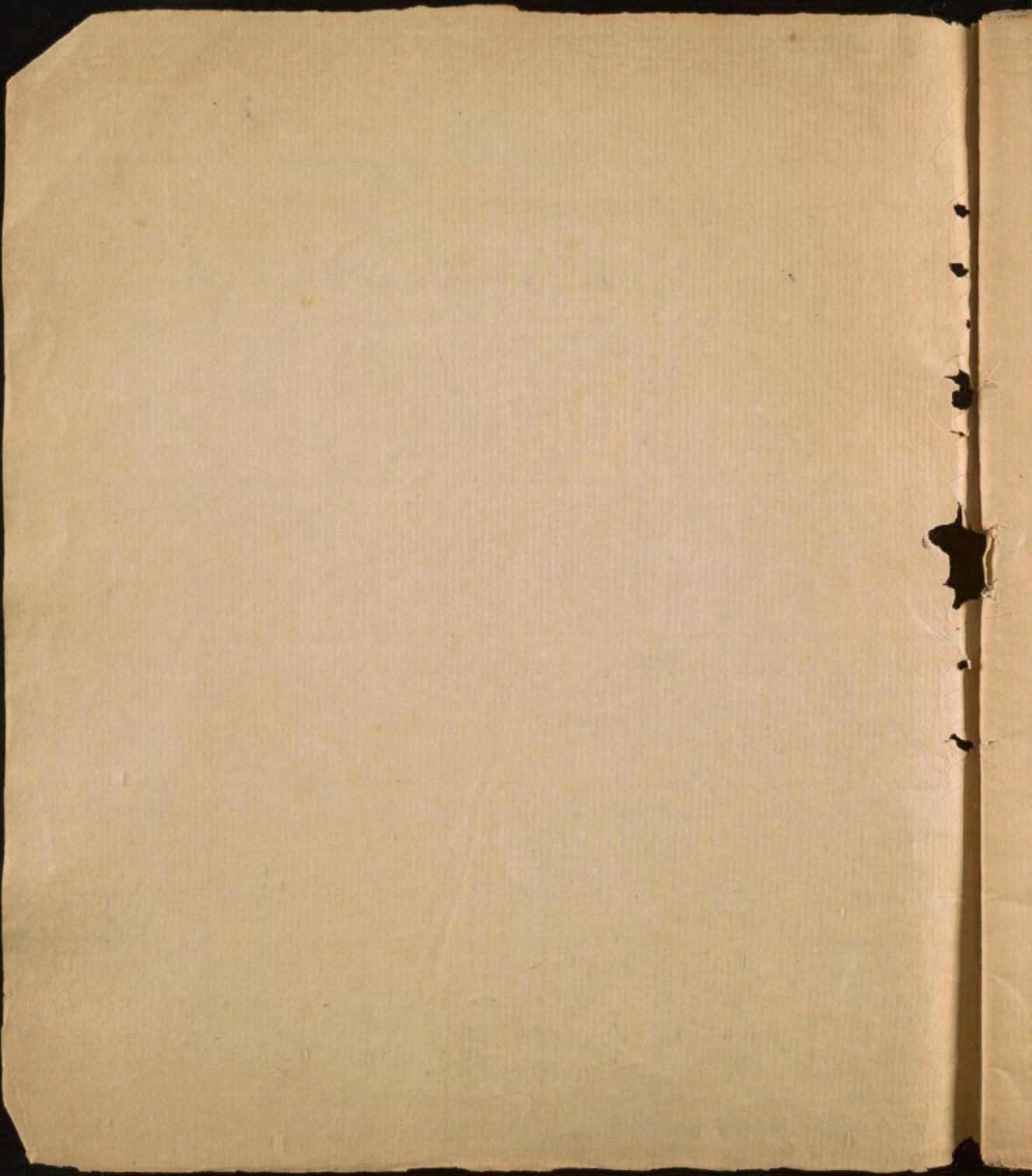
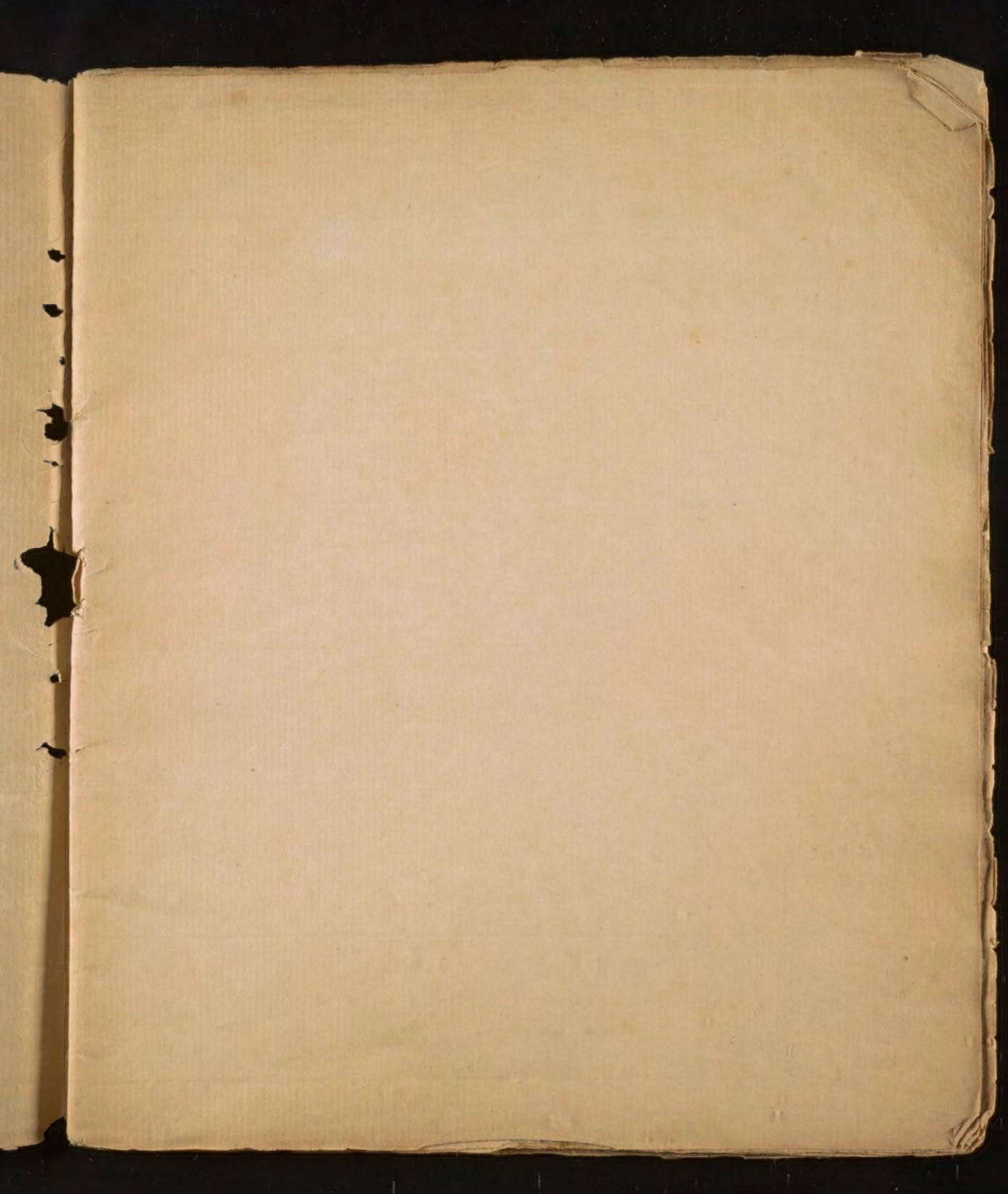


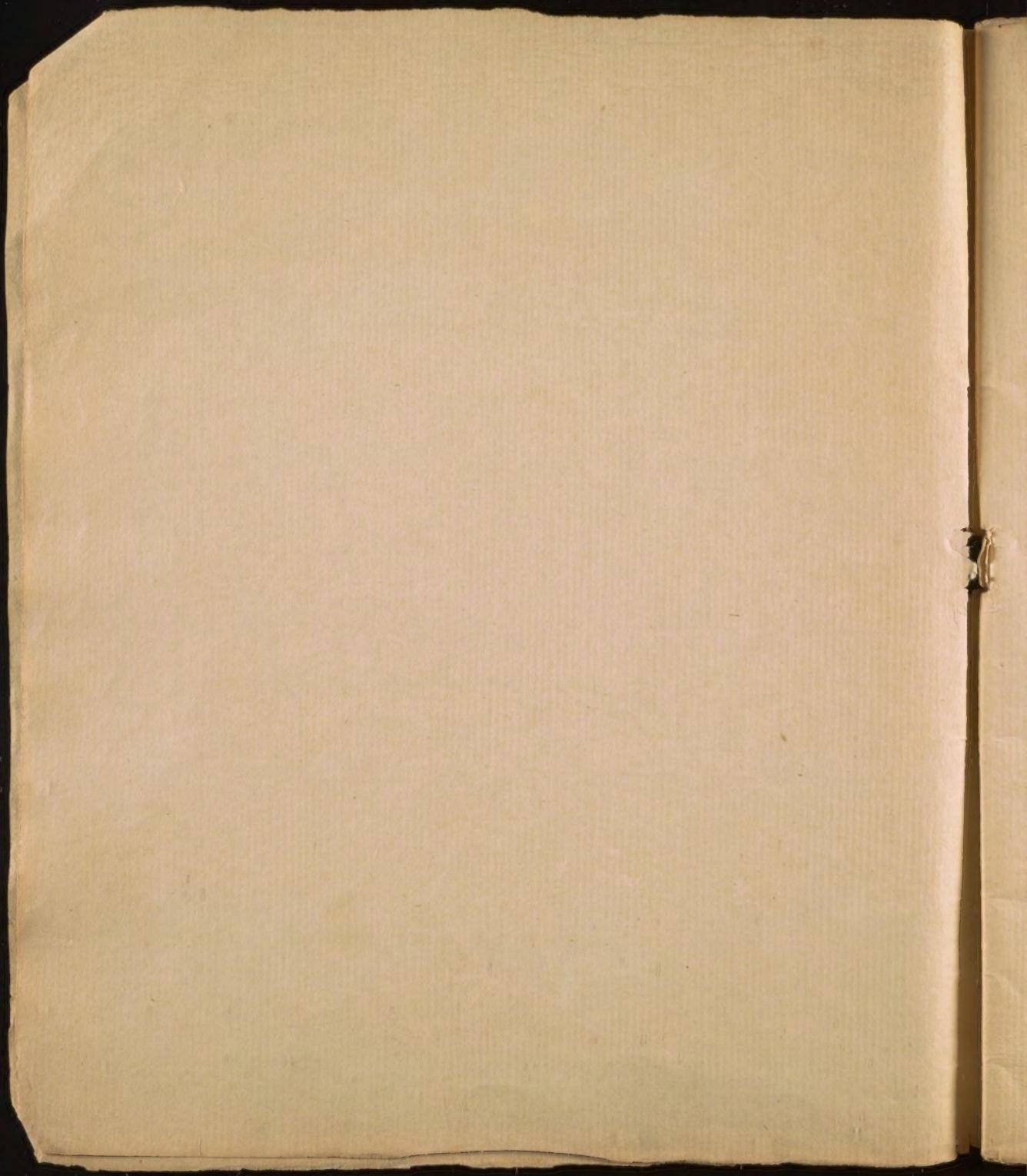
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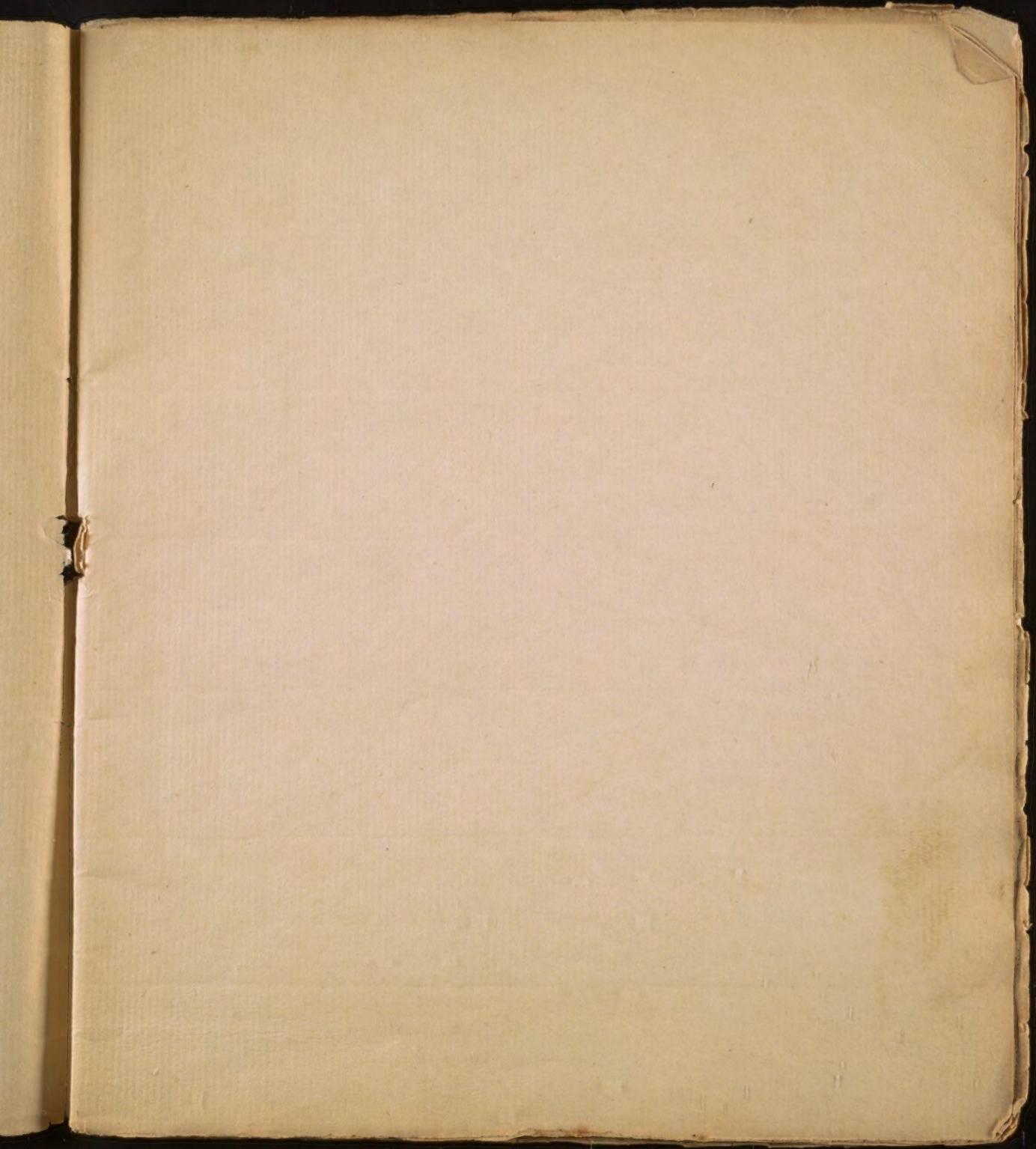
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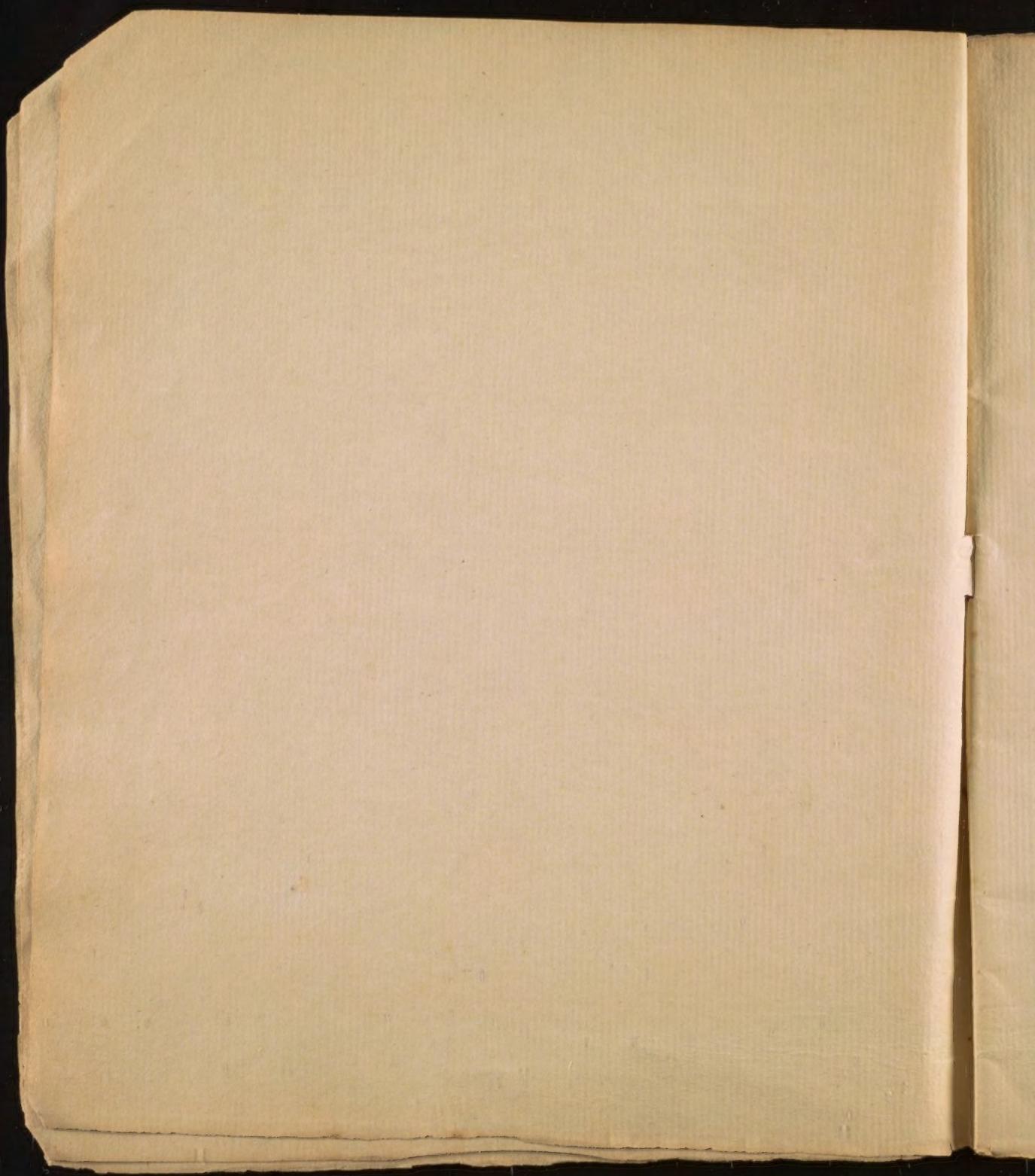
Introductory lecture on the  
connection of theory with practice.

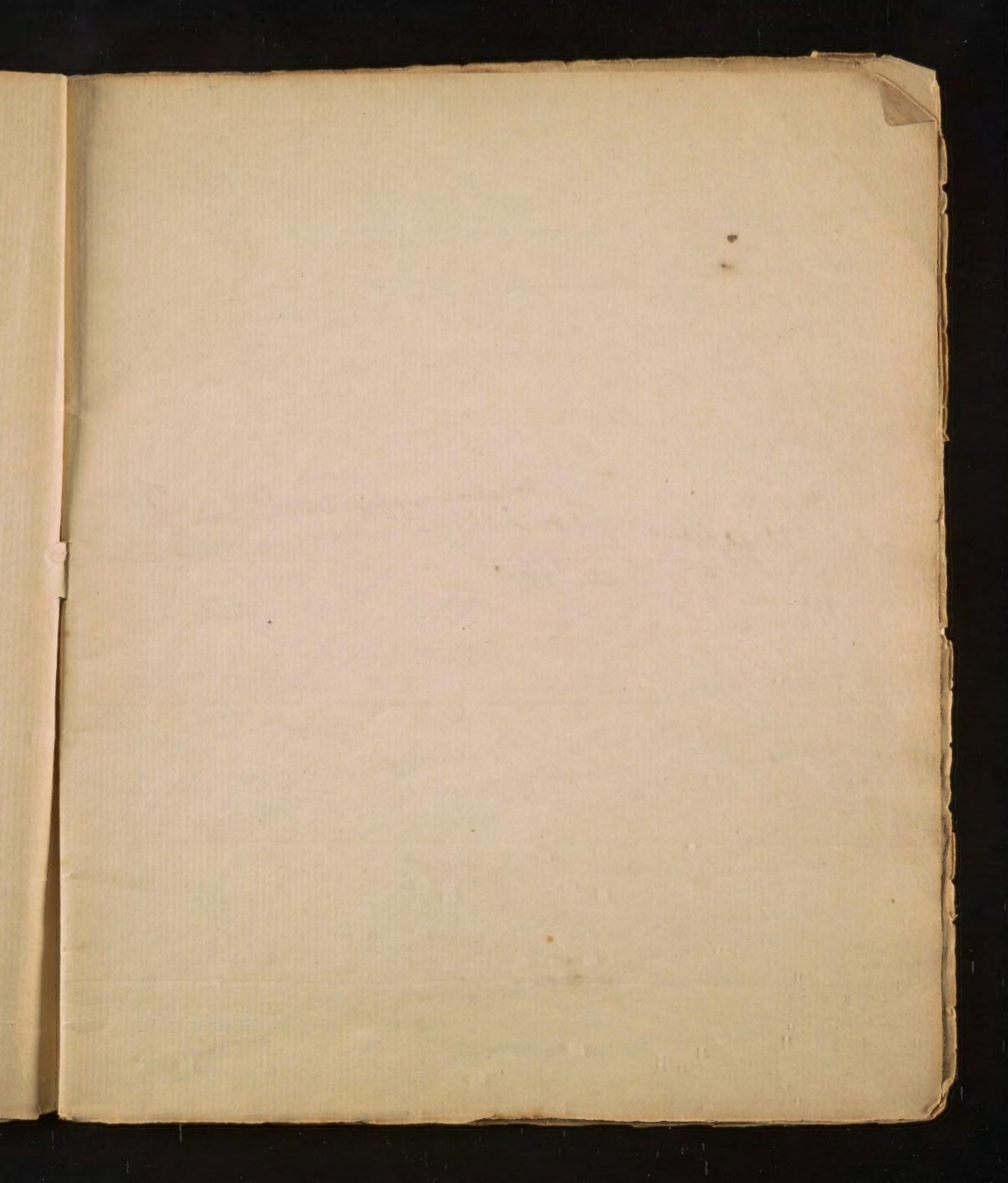












✓ Hygiene considers the means of  
preserving health.

128  
Nov<sup>2</sup> 1803  
Nov<sup>7</sup> 1806  
Gentlemen /

I said in my introductory lecture  
my business in this University ~~is~~ to teach  
the Institutes of medicine & the practice  
of physic.

The former include Physiology -  
~~or the art of preserving health~~  
Pathology & what are called Therapeutics;  
~~or general~~  
~~or the method of curing disease founded~~  
upon a knowledge of their causes pri-  
-marily explained in the lectures upon  
Pathology. The latter includes the history of the  
~~signs, &c. of the cure of particular diseases.~~  
Physiology considers the functions  
of the human body in ~~its~~ healthy state.

Pathology considers the causes which  
derange those functions, & thereby induce  
diseases. Those causes ~~do~~ include all

lectures upon each of these branches  
of medicine, I shall twice a week deliver  
~~etc.~~ <sup>from his Chair</sup> remarks upon such cases of disease  
as occur in the Penns. Hospital. The  
<sup>Different</sup> subjects of these lectures are divided in  
the Univ: of Edin<sup>2</sup> into three ~~the~~ dis-  
tinct professorships. I have preferred  
uniting them - I because they are con-  
nected inseparably, ~~and~~ <sup>inligible</sup> and can be  
taught & ~~not~~ only by being taught  
under the direction of the same prin-  
ciples & 2 because I wished ~~to~~ as much

2

external & internal impressions which  
in a malidige act upon the body, and the changes  
induced by them in the structure, & actions  
of the different functions.

Therapeutics <sup>considers</sup> ~~enfolds~~ the Remedies  
which cure diseases ~~as~~ as unfolded by  
pathology.

The practice of physick descends to  
the application of the principles explai-  
ned in therapeutics, to the cure of  
particular diseases. — <sup>giving v</sup> Besides ~~deliv~~.

For a full acc<sup>r</sup> of all the subjects  
which are to be included in the above  
division of our course, ~~I beg leave to~~ <sup>half</sup>  
is contained ~~refer you to a Syllabus,~~ which will be  
~~forthwith~~ <sup>1795</sup> published by  
~~1795 forward,~~ & bound up with six  
introductory lectures delivered by me in

as possible to lessen the expenses of  
a medical education in our University.

Punjab Govt. to recommend  
His University. ~~sometime ago.~~ These lectures  
will I hope be useful to you as  
to your present. They contain many of  
my peculiar opinions ~~in~~ <sup>in</sup> regard of the  
~~Science~~ of medicine, & they will help  
to render many parts of our course  
more intelligible to you.

The design of the ~~first~~ <sup>this lecture</sup> introductory lectures ~~is~~ <sup>is to shew</sup>  
the connection between theory & practice  
in medicine. After the ~~experience~~ <sup>facts</sup> and  
nearly 15 years in teaching this branch,  
and after practice of <sup>above 50</sup> nearly 60 years,  
I have confirmed all that I have  
said in favor that lecture ~~on~~ in favor of  
the ~~method~~ <sup>Union</sup> of Observation & reasoning in  
medicine in order to constitute a Physician  
or to improve our Science. <sup>I know gentle</sup> ~~medicine may~~

v The science of medicine cannot stand  
upon any one, nor yet upon any  
two of them. But

it is fashionable to decry theory in medicine,  
and to extol facts, or what is commonly called  
experience at its expense. But facts and  
experience are often <sup>as</sup> useless & fragmentary  
delusive without theory, as theory is without  
facts. Medicine may justly be compared  
to a tripod - ~~on~~<sup>feet</sup> The three ~~supporters~~ of  
this tripod - are Observation - Experiment,  
and reasoning, or theory. ~~in making a long~~  
~~fall to the ground - but rising~~  
~~where they are unable to support the~~  
~~unit,~~  
~~they mutually support each other.~~ It is  
true our ~~long~~ science has been retarded by  
so many erroneous systems of medicine;  
but it is equally true it has been more  
retarded and injured by erroneous Observation,  
and fallacious experiments; & hence Dr.  
Cullen used often to tell his pupils

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5 (if the caypon be allowed)

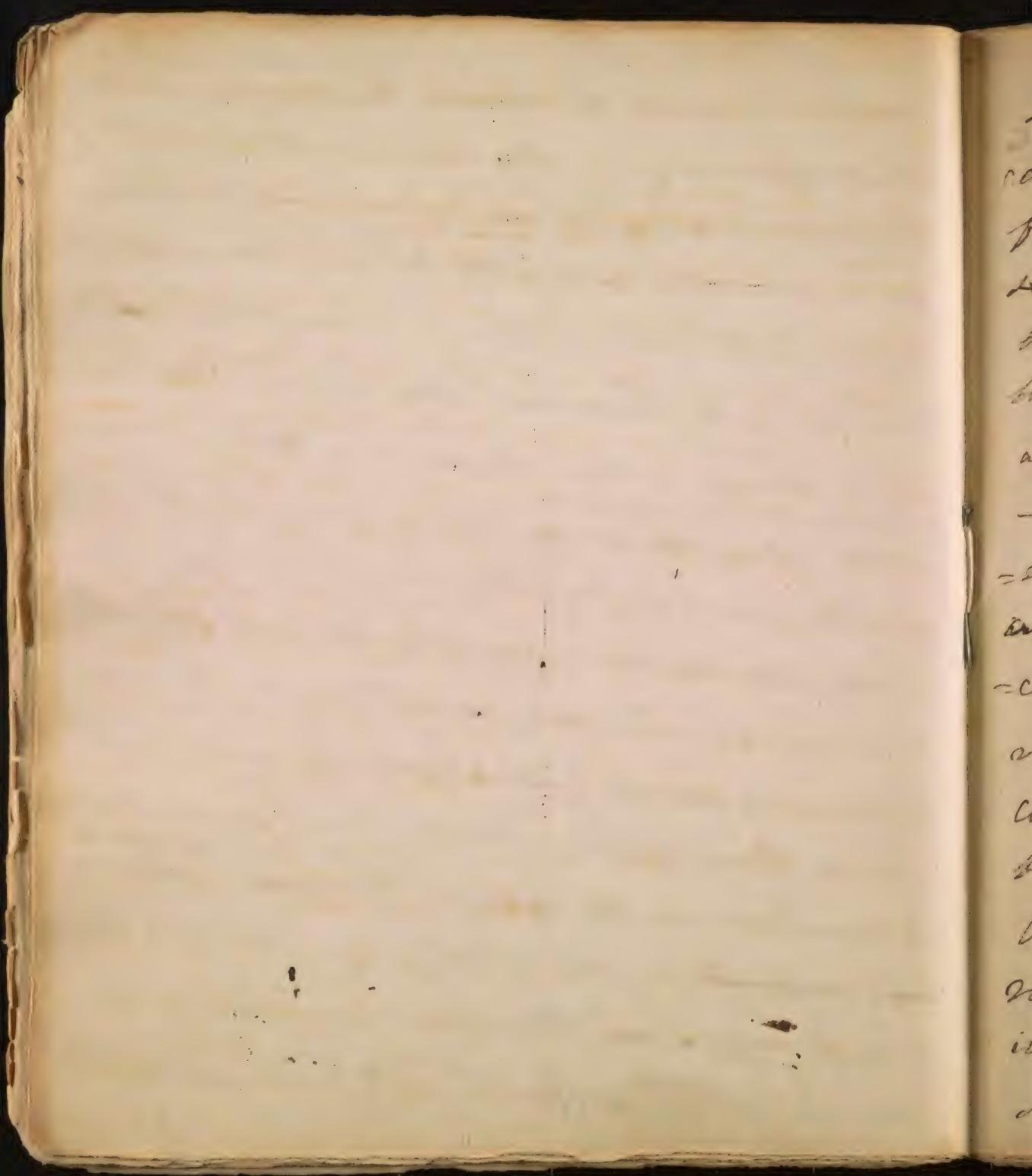
There were ten false facts to one false theory in medicine. The advantages have emitted from a combination. Facts are the touchstones of theories, as theories are of facts.

I cannot better illustrate the truth of this remark than by mentioning the advantages which our science has derived from the labors of two men whose names are immortal in the history of medicine. I mean Dr. Sydenham, & Mr. John Hunter. The former overthrew the theories of ages by his the facts he brought to light by his faithful & accurate <sup>observations</sup> ~~histories of diseases~~, while the latter overthrew <sup>thousands of</sup> the supposed facts ~~of~~ by top his theories, or in his other words by his discoveries of the laws of the animal economy, and the operation of medicines.

✓ That the late ~~Freethinkers~~<sup>Infidels</sup> have done  
who have attempted to divide morals  
from Religion. Theory & practice

6

permit me to add  
in the cure of diseases. ~~But~~ <sup>to</sup> further,  
that those men who attempt to divide theory  
of practice, aim at <sup>the same</sup> impossibility. They  
are inseparably connected by an immutable  
& eternal law in the human mind. "To  
think is to theorise" ~~says~~ Dr. D'Amour,  
and where is the physician or the man  
economus, or even suspender  
that can <sup>discover</sup> the involuntary operation  
of his mental faculties in thinking? There  
never was a physician who did not secretly  
theorise, or who ever prescribed a medicine  
without a secret indication of cure founded  
upon a theory of some kind. The clamours which  
<sup>theories are to find</sup> have been excited against ~~theorising~~ - <sup>against</sup>  
as confined directed wholly against such theories  
as are new, for this was remarkably the  
case in Edin<sup>r</sup> ~~in 1783~~ when Dr Cullen first



7

sought discovered, & expand the proximate  
cause of diseases in the solids instead of the  
fluids. ~~of his Brothers~~ <sup>His</sup> Brethren professors who were  
~~devoted to~~ <sup>lector of the</sup> ~~devoted~~ <sup>in the aid - Alkaline & muriatic</sup>  
humors of Dr Boerhaave, complained of his  
theorizing, and for a while treated his opinions  
as the effusions of a wild & distempored <sup>imagination</sup>.  
The Doctor was not insensible of the incon-  
sistencies of their charges against him, &  
availing himself of the simplicity of his prin-  
ciples, publicly declared that there was  
more theory in one page of Van Swieten's  
commentaries upon Dr Boerhaave's Aphorisms,  
than there was in a dozen of his lectures.  
As a proof that the ~~obnoxious~~ <sup>unpopular</sup> & odious  
nature of theory consists only in its novelty,  
it will ~~be~~ not be improper to add that the  
<sup>same</sup> physicians <sup>devoted</sup> who were ~~devoted~~ all

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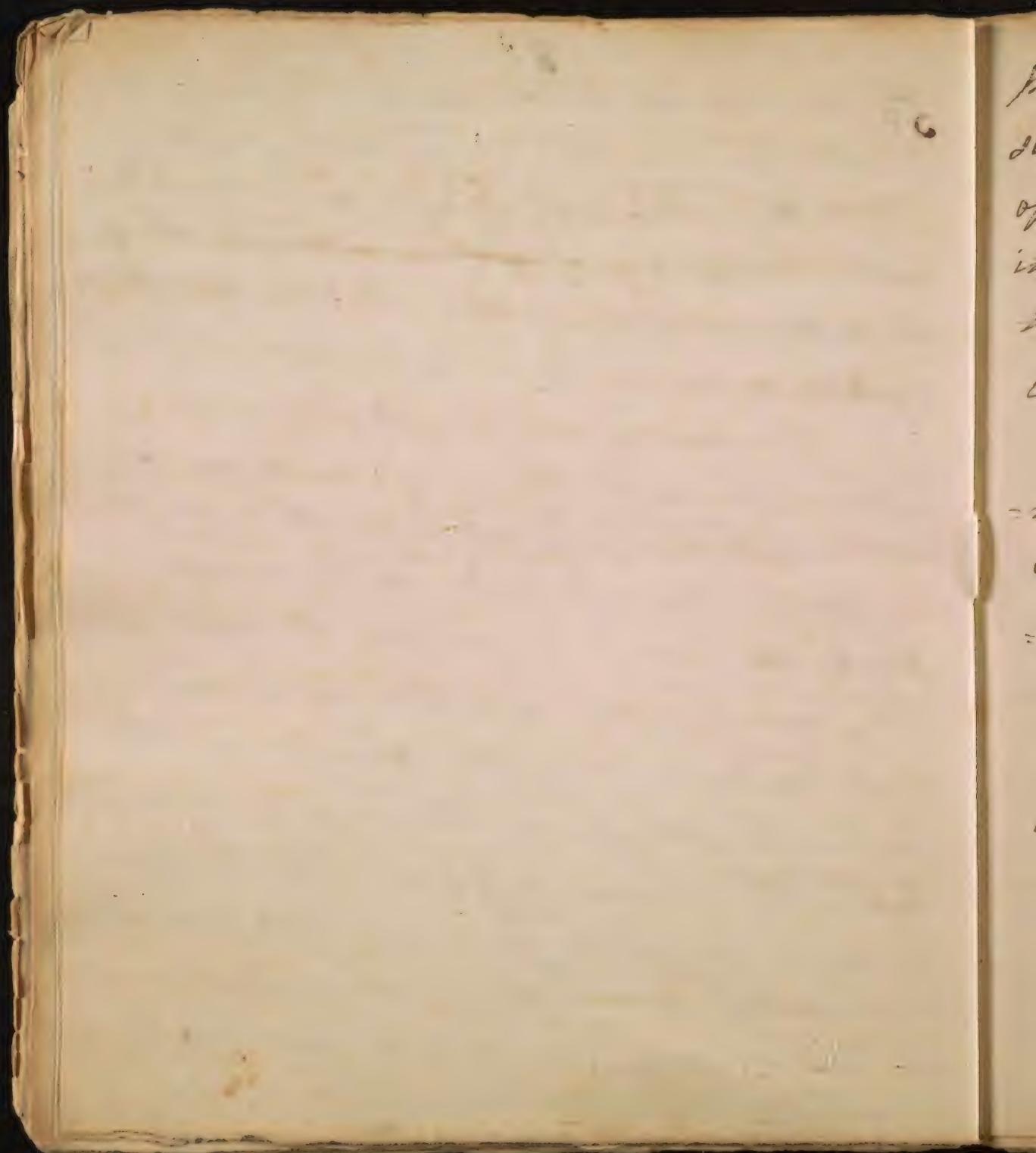
✓ You thus adopting Dr Cullen's theories, after  
treating them with contempt & ridicule they  
resembled the Priest who <sup>saw</sup> on his way  
to a costly feast a collection of choicerans  
and being unwilling to spoil his appetite  
by eating fruit, — upon them. &  
the madder.

✓ I am aware that the detection and  
refutation of Dr Cullen theories

8

50 years ago to Dr. Boerhaave's theories of the  
morbid Acrimonies, are <sup>now</sup> equally stationary  
in Dr. Fuller's theories of <sup>monous as they were called</sup> Spasms & putrefaction,  
and of the efficacy of <sup>the healing powers of</sup> sedatives ~~exciators~~ & of  
nature, and of the sedative action of certain  
medicines in the Cure of Diseases. ✓

In one of Moliere's plays entitled the  
"Citizen turned gentleman". <sup>The</sup> ~~An illiterate~~  
~~citizen~~ ~~of Paris~~ ~~is to inform~~ ~~of~~ ~~A doctor~~ to  
be taught the principles of language. The  
professor began by dividing all writings  
into <sup>two kinds - vis</sup> verse & prose, and illustrated each of  
them by quotations, - the one from the  
poets - the other, from the language of common  
conversation. - The citizen no sooner heard the latter,  
that he discovered <sup>of it</sup> he was in possession of  
the knowledge, & exulted in the reflection that  
he had been in the habit of speaking &  
writing prose without knowing it in every



part of his life. The same thing may be said of those physicians who are the enemies of theory. They are in the habit of exercising it without knowing it, in every act of their minds, when they prescribe for the cure of diseases. —

~~The~~ is no objection to theory that we cannot explain the causes of all diseases, and of course that ~~we~~ <sup>cannot</sup> have a perfect system of medicine. The same thing may be said of all other sciences, ~~and~~ the science of navigation is still imperfect, and yet we do not upon that account ~~reject~~ <sup>a</sup> all the advantages we derive from the magnet, the quadrant, & from Lunar Observations.

It has been remarked that ~~had~~ more discoveries have been made in medicine within the last 40 years, than had been made for

~~X and the practitioners of medicine~~  
~~who relies upon~~  
~~them exclusively, without combining them~~  
~~into with theory, in the treatment of diseases,~~  
is ~~V~~ more a ~~piece~~ than a collection of  
bricks in a Brick yard, - is a house, ~~or~~  
The man who practices medicine, without no  
other resources than ~~and~~ <sup>volumes of uncorrected</sup> facts in his booke  
memory, is no more a physician, than the  
day labourer who carries the load, is a master  
builder. ~~soadaine~~

10

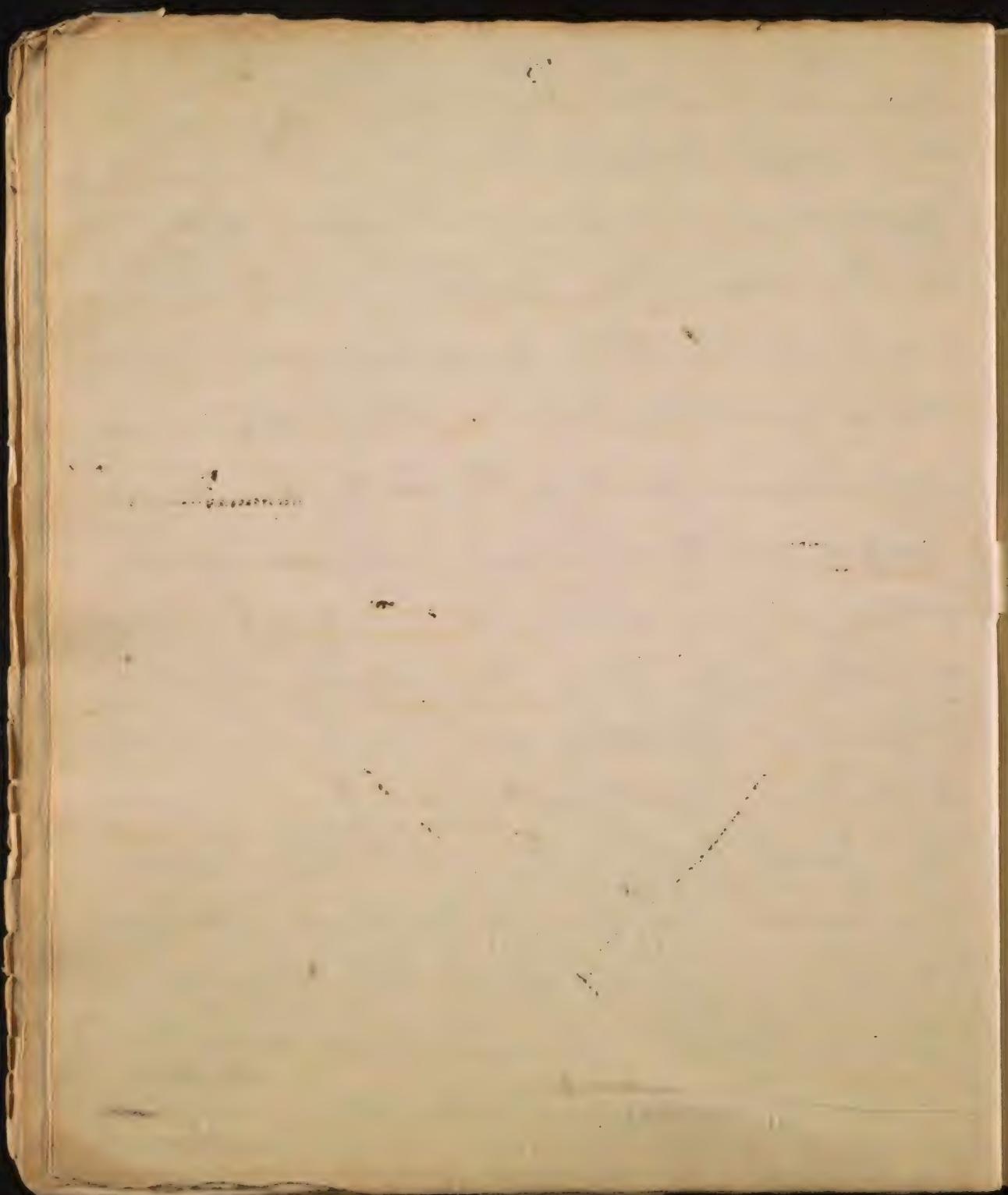
centuries before. The reason of this is ~~that~~  
~~we added to there has been more theory intro-~~  
duced into our science within that period  
than formerly, ~~and that too~~ by means  
of which <sup>dominant</sup> ~~topical~~ facts have been brought  
to light and such as were <sup>detected</sup> admitted to be  
erroneous, have been rejected <sup>from the practice of physic.</sup> ~~from tradition.~~

~~It is no more now~~ <sup>upon</sup> ~~medicine~~  
~~The practice of phys.~~ when founded  
~~only upon~~ <sup>only</sup> upon facts, is no V Medicine  
~~only~~ <sup>only</sup> facts, ~~only~~ is ~~an art~~, & ~~the~~ it becomes  
a science only when ~~it is~~ facts are combined  
with theory, & that man ~~who~~ only is a  
physician who prescribes under the influ-  
ence of facts & theory them both. A system  
of religion of some kind has always been  
found necessary to promote good morals, so  
a system of some kind has always been  
found equally necessary to promote regular

In like manner gent: I have resolved  
to follow reason, or to theorise in medicine  
as long as it shall please God to continue  
~~to the last moments of my life~~  
to me the exercise of the reasoning  
faculties of my mind. I am the more  
encouraged to adhere to this resolution  
for by ~~say~~ the advantages I have derived  
from reasoning in medicine, for if I have  
at any time beyond the mortality of a  
single disease, I declare that publicly,

& successful practice in medicine.

After these preliminary remarks I need hardly inform you gent: How duty & inclination alike concur, to determine me to teach the theory as well the practice of medicine from this chair. ~~so~~  
 also I once attended the only son of a foreign gentleman in this city for a droop of the Brain. I advised the loss of a few Ounces of blood in his case. The remedy <sup>at first</sup> startled, & distressed the father of the child, but after a few moments reflection he clasped his hands together, <sup>in a pell-mell way of Ville in</sup> & cried out " J'aurais la force language. — la raison — jusqu'à la dernière moment de la vie ". "I will follow the dictates of reason to the last moment of my life".  
 - I ~~have long ago~~ <sup>have long ago</sup> adopted the ~~same~~ <sup>rotation</sup> ~~principle~~ <sup>in rotation</sup>



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the science of medicine, nor have I had  
reason to repeat it, for if it has pleased  
God in a single instance to have made me  
the instrument of helping the mortality  
of any one disease, I ~~will~~ declare thus public-  
ly ~~in honor~~ <sup>means of ~~an~~</sup> ~~of this reasoning in medicine~~  
I was led to the discovery of the ~~remedies which~~  
~~doing so it~~ effected <sup>not by</sup> ~~it~~ not by accident, - not by precedents  
derived from books, <sup>as former expe-</sup> ~~as former expe-~~  
rience, but <sup>by</sup> ~~by~~ <sup>theory</sup> ~~reasoning~~ in medicine.

~~It has~~ My lot in our ~~the~~ science has  
been a difficult & laborious one. ~~I have~~ I have studied  
medicine three times - that is - I have ~~I have~~ I was  
converted a Boerhaavia, in 1819 I became a  
disciple of Dr. Cullen. soon after I began to  
practise physic, I found ~~that~~ the system  
of my illustrious master did not accord

+ Those circumstances are the most consoling, as  
they ~~the modes of~~ principles are not only  
opposed to a great & great strength of prejudice, but  
~~any~~ modes of practice - to the feelings ~~of~~ <sup>of sick people.</sup>

✓ They not been led by ~~for many years~~  
~~I~~ ~~not~~ found them to a more more  
+ ~~I have~~ ~~one~~ more reason for believing  
Successful practice in common dis-  
=eases, & to the cure of some diseases  
are deemed incurable, by them. <sup>But</sup> I have  
two  
~~Other~~ ~~more~~ reasons for believing them to  
be true, <sup>Shewing</sup> & ~~that~~ is they have generally  
been in the habit  
~~adopted~~ I have ~~seen~~ for many years past  
of requiring <sup>graduates &</sup> letters from the former students of our Univer-  
sity from all the different states in which they  
have been informed that they had found  
the new modes of practice I had taught them, as  
successful in their hands, as they had been in my  
own, & I have those modes of practice having  
been adopted ~~as~~ & with ~~success~~ success by those

with the phenomena of disease. Actuated by  
 an ardent desire to save the lives of my  
 patients, more than any ~~other~~ thing else, I  
 soon ~~invariably~~ <sup>observed</sup> returned to depart from the principles  
 of my master, I read & thought for myself.  
~~From~~ <sup>painful</sup> the result of my inquiries is well known  
 to you all. For a while I <sup>wore</sup> thought  
 with doubt of ~~this~~ <sup>the</sup> truth & spoke of them  
 with diffidence. For should ~~I have~~ presumed  
 to ~~say~~ at this day that I <sup>had</sup> <sup>believe & confidence</sup> assumed to have  
 acknowledged my ~~confidence~~ <sup>peculiar</sup> in them had  
~~they not been the change~~ <sup>the commencement</sup> of practice to  
 they first led me, ~~to~~ <sup>be</sup> adopted by those  
 gentlemen who for many years pre-  
 - ciously & ignorantly opposed them. ~~for~~ +

Be not alarmed gent: at my determi-  
 nation to <sup>beyond</sup> strike the theory of medicine as far  
 as I am able, with my lectures upon the

in number that you will readily re-  
tain them. Such of you as have brought  
to this University Dr Brown or  
~~with you~~ the theories of Dr Cullen, & Dr Brown,  
will be great losers by exchanging them for  
mine for I will give you ~~but one~~<sup>the same</sup> where  
~~they~~ given you twenty. ~~cross of course~~ either  
gent. let your fears be excited, least I should  
not mingle facts with my theories; so far  
from it, I will venture to promise you that  
I shall deliver at least 1000 facts to one  
theory. Indeed my whole course of lectures will  
consist chiefly of facts. After this  
introduction, I proceed to ~~take notice~~ that <sup>pp. 1, 2,</sup>  
~~I am not insensible gent.~~ <sup>in off</sup> to  
the clamors, & handings that have been  
~~my late attempts~~ the principles, & mode of

practice of Physic. ~~now~~ all the theories I shall deliver to you will be simple, & easy of apprehension. ~~so much so that they~~ <sup>so far in</sup> ~~they will~~ moreover be ~~moreover be reasonable,~~ ~~to them~~ shall they exclude a large collection of facts. Indeed I will venture to promise you that I will deliver ~~one~~ facts in the course of these lectures to one theory ~~is nor shall~~ <sup>I will</sup> deliver a single theory which ~~shall not be supported by facts.~~

I have ~~but few~~ <sup>no</sup> new Remedies to offer to you for the cure of diseases. ~~the changes made~~ <sup>in common with</sup> ~~my principles had to~~ my principles yield ~~led~~ to a ~~affection made~~ ~~that~~ ~~proceeded~~ to your improvement ~~more~~ <sup>more</sup> ~~a few~~ ~~your practice will consist~~ in the use of old remedies ~~at different times~~ than in the use of my new ones.

I have carefully avoided ~~now~~ laying any claim to having taught. In thus defending theory in medicine, & promising to teach it, I beg

~~practices I have taught in this University.~~  
- But I am not, & shall not be discouraged  
by them. ~~as long as~~ ~~believe~~ ~~I am~~ able to totter  
up these stairs, & to ascend this desk I shall  
continue to teach them - because I believe  
them to lecture, & know them to be useful.  
~~- My lot is in the profession of medicine tho'~~  
~~a student is not I have now yet replied to~~  
a single ~~for attack upon me~~. I have  
hitherto treated the publick & the more  
insidious private attacks that have been  
~~my principles & practice~~  
made ~~upon~~ with ~~gloves~~, & ~~for~~ what is  
more with <sup>^</sup>forgiveness, - and I shall continue  
to do so as long as I live.

Gentlemen, you would ~~not suppose that I~~  
~~lay the least claim to being the author~~  
of a new system of medicine. As little have  
I aspired to a niche or a crown as to that  
honour in our profession. My System ~~of~~ <sup>ess</sup> provides  
a theory for every disease, & ~~for~~  
~~every~~ an explanation of every phenomenon  
in the Animal Economy. My principles  
had only to <sup>an explanation</sup> ~~the theory of a small part~~  
of the diseases of the human body, and a  
~~selection of~~ but a few of the laws <sup>which</sup> of the  
govern it. But while I thus limit <sup>the</sup> my  
extent of ~~my~~ ~~know~~ my principles, I do not  
hesitate to declare that I believe all the laws  
of the Animal Economy, & all the causes of  
diseases ~~admit~~ of explanation, and that  
~~sooner or later~~ <sup>sooner or later</sup> a system will arise from the

~~V~~ the possibility of our arriving at  
perfection & certainty of medicine is ~~one~~  
~~of the <sup>only</sup> ~~sure~~~~ means to ~~attain~~ attaining  
to them. After this general & plain remarks, I  
~~I~~ proceed now to make a few remarks  
upon the method of ~~finding~~ acquiring a  
knowledge of the practice of physick.  
I proceed to take notice,

~~beneficial labors & contributions of different men, & perhaps of successive generations, sooner~~  
there will be formed a complete system of medicine. ~~I do not believe this is to do no good~~  
~~next to the Supreme Being, for let~~ <sup>then</sup> ~~the consideration~~  
~~of the present imperfect & unfinished state of~~  
~~the fabric of medicine amaze you, in your~~  
~~desire to add your labors to those of your pre-~~  
~~decessors in order to complete it. The United~~  
~~States have already added several stones ~~to the~~ <sup>to the</sup> ~~line~~ <sup>line</sup>~~  
~~to this building.~~ ~~Let it not become weak in~~  
~~your hands who knows but what Heaven~~  
~~has destined ~~the~~ <sup>it to the</sup> cap stone ~~of~~ <sup>of</sup> the building~~  
~~to be placed upon it by some American~~  
~~physician, and perhaps by some of~~  
~~the gentlemen ~~who~~ <sup>I have now the</sup> honor of~~  
~~part <sup>in</sup> addressing.~~ <sup>always recollect that</sup> ~~comfort~~ <sup>2</sup> ~~you~~ <sup>are</sup> ~~a~~ <sup>the</sup> ~~believe~~

